

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN THE STATE
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Cochrane Resources, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 1656 Roosevelt, Utah 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

2016' FEL 757' FNL NWNE

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

22 Miles South West From Myton, Utah

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

757'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

5100'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6021' G.R.

22. APPROX. DATE WORK WILL START*

May 1, 1991

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	J-55 24# STC	8rd 200' new	to surface
7 7/8"	5 1/2"	J-55 15.5# LTC	5100' new	as required

T.D. on this well will be 5100' in the Green River Formation.

See: 8 Point Compliance Program
13 Point Surface Use Plan
B.O.P. Diagram
Plat of Location
Cut and Fill Sheets
Topographic Map

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

President

DATE

April 9, 1991

(This space for Federal or State office use)

PERMIT NO.

43-013-31312

APPROVAL DATE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY

TITLE

DATE:

4-18-91

BY:

WELL SPACING:

65-3-2

*See Instructions On Reverse Side

ACCESS ROAD

TANK

TANK BERM

PUMPJACK

WELLHEAD

DRAINAGE

N

LOCATION PLAT

FEDERAL 31-29
SEC.29 T10S R17E
DUCHESNE COUNTY, UTAH

T10S, R17E, S.L.B.&M.

COCHRANE RESOURCES, INC.

Well location, FED. #31-29, located as shown in the NW 1/4 NE 1/4 of Section 29, T10S, R17E, S.L.B.&M. Duchesne County, Utah.

S89°55'W - G.L.O. (Basis of Bearings)
2616.37' (Measured)

N89°49'32"E - 2638.77' (Meas.)

Brass Cap

Brass Cap

Brass Cap

FEDERAL #31-29

Elev. Ungraded Ground = 6021'

2016'

757'

S0°00'19"W - 2645.73' (Meas.)

Brass Cap

29

N0°03'W - (G.L.O.)

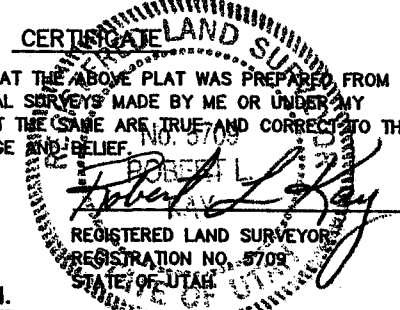
N89°59'W - 79.82 chs (G.L.O.)

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 29, T10S, R17E, S.L.B.&M. TAKEN FROM THE WILKEN RIDGE QUADRANGLE, UTAH - DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP). PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6210 FEET.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REVISED: 3-22-91 R.E.H.

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX 1758 - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

▲ = SECTION CORNERS LOCATED.

SCALE 1" = 1000'	DATE 3-18-91
PARTY G.S. R.A. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER COLD - SNOWING	FILE COCHRANE RESOURCES, INC.

8 POINT COMPLIANCE PROGRAM

WELL NAME: Cochrane Resources Federal 31-29

LOCATION: N.W. of N.E. Sec. 29, T10S, R17E. S.L.M.

LEASE NO.: U-65632

ONSITE INSPECTION Date: 3/21/91

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

Well will spud in the Uintah Formation.
Green River at 800'.
Wasatch at 5100'.

2. Estimated Depth at Which Oil, Gas, Water or Other Mineral Bearing Zones are Expected to be Encountered:

	<u>FORMATION</u>	<u>ZONE</u>
Expected oil zones:	<u>Green River</u>	<u>3500' - 5100'</u>
Expected gas zones:	<u>Green River</u>	<u>3500' - 5100'</u>
Expected water zones:	<u>Upper Green River</u>	<u>0' - 5100'</u>
Expected mineral zones:	<u>None</u>	

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

The rig will be equipped with 10", 3000 PSI, double ram B.O.P.'s with a 10", 3000 psi annular type B.O.P. Pipe rams and blind rams will be tested to 2000 PSI, and the annular B.O.P. will be tested to 1500 PSI before drilling out from surface casing. Pipe rams will be operationally checked each day, and blind rams every trip out of the hole. Accessories to B.O.P.'s include Kelly Cock, Floor Safety valve, and choke manifold of equivalent pressure rating. B.O.P. systems will be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection will be recorded on a daily drilling report.

Preventer will be pressure tested before drilling casing cement plugs and recorded on the daily drilling report.

The District Office should be notified with sufficient lead time, in order to have a BLM representative on location during pressure testing.

4. Casing Program and Auxiliary Equipment:

200' of 8 5/8", 24#/ft. casing will be set and cemented to surface. If the well is productive 5 1/2", 15.5#/ft. casing will be set from surface to T.D. Cement program will be determined at that time.

Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

5. Mud Program and Circulating Medium:

0' - 4500' Drill with fresh water.

4500'-T.D. Drill with 2% KCL water.

No chromate additives will be used in the mud system on Federal and Indian Lands without prior approval to ensure adequate protection of fresh water aquifers.

6. Coring, Logging and Testing Program:

No cores or drill stem tests will be taken. Open hole logs will be DLL with Gamma Ray and Micro SFL from T.D. to 3000'. FDC and CNL from T.D. to 4000'. Mud log from 3000' to T.D.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by authorized officer. (AO).

7. Abnormal Conditions, Bottom Hole Pressure and Potential Hazards:

No abnormal conditions or potential hazards are anticipated. Expected bottom hole pressure is 1800 PSI.

8. Anticipated Starting Dates and Notifications of Operations:Location Construction: April 25, 1991Spud Date: May 1, 1991

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No.1, this will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM District Office, 170 South 500 East, Vernal, Utah 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into lined pits for a period of up to 90 days. During the period so authorized, an application for approval of the disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, leasees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 days or authorized period.

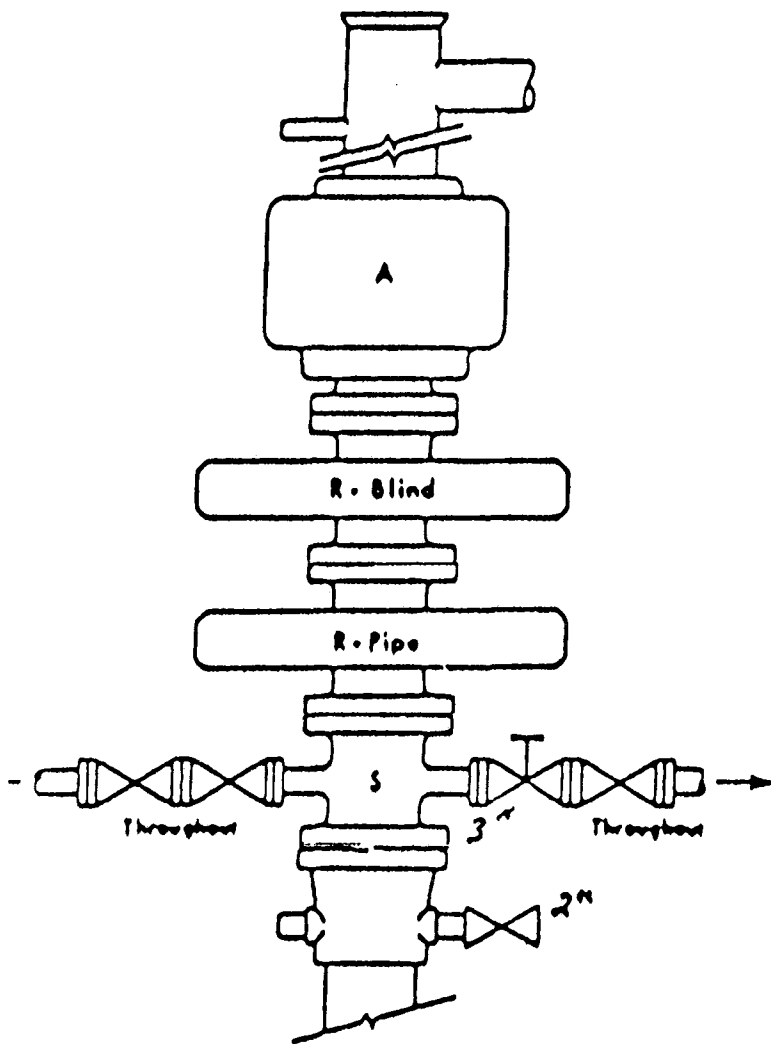
A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of first production notice.

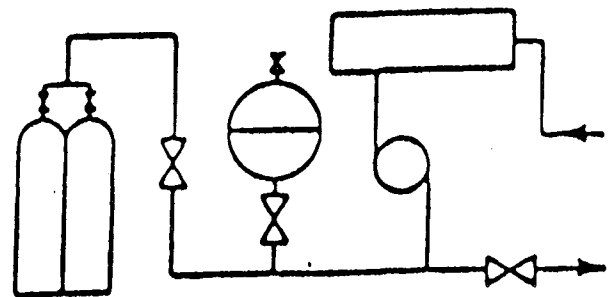
No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas order No.1, leasees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to the operations on Federal or Indian lands.

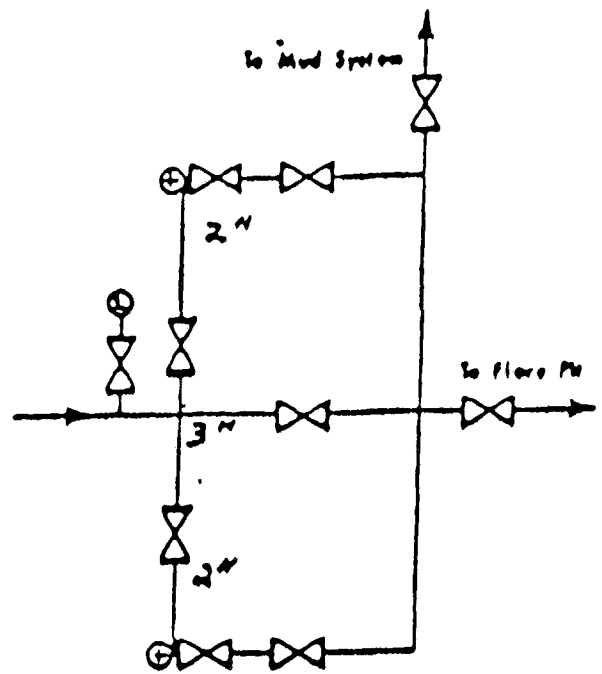
PRESSURE RATING
3,000 psi



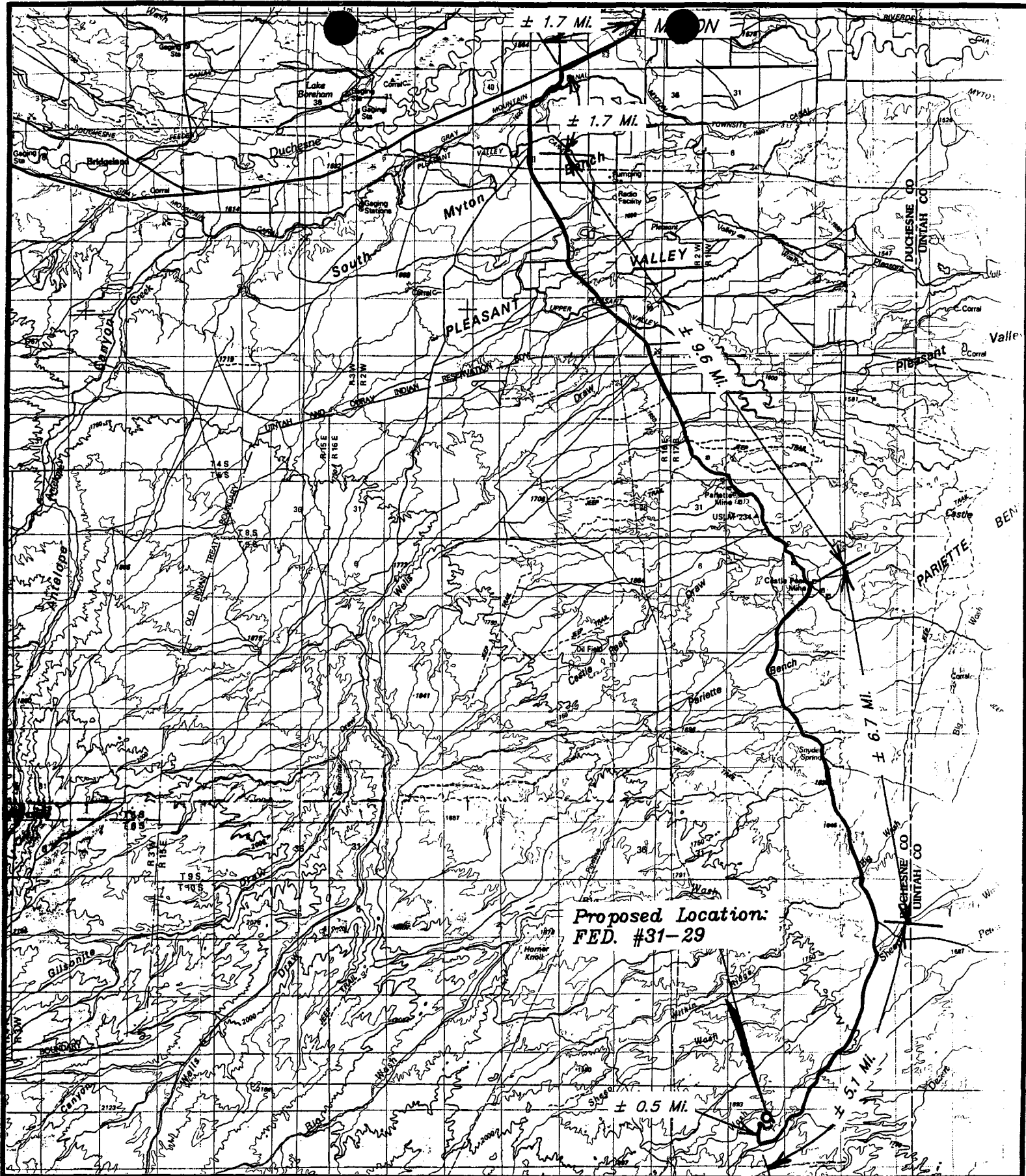
BLOWOUT PREVENTION STACK



ACCUMULATOR SYSTEM



Flopped Connections Throughout
MANIFOLD SYSTEM



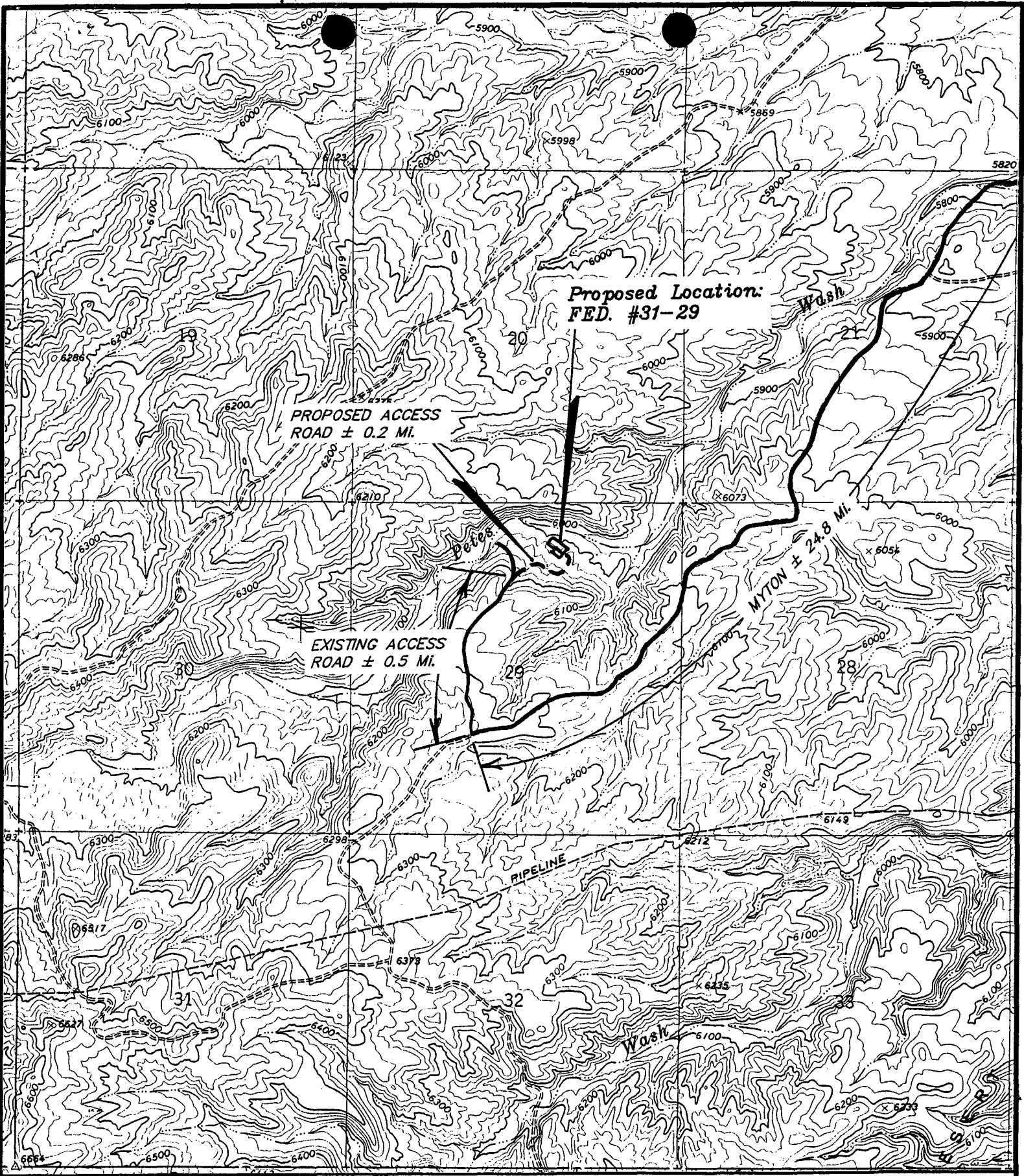
TOPOGRAPHIC
MAP "A"

DATE: 3-18-91



COCHRANE RESOURCES, INC.

FED. #31-29
SECTION 29, T10S, R17E, S.L.B.&M.



TOPOGRAPHIC

MAP "B"

SCALE: 1" = 2000'

DATE: 3-18-91



COCHRANE RESOURCES, INC.

FED. #31-29

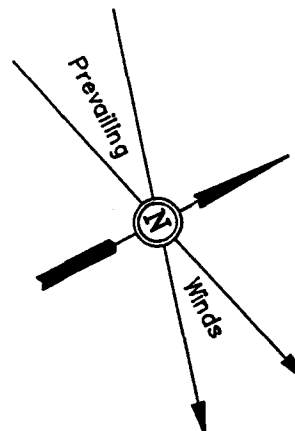
SECTION 29, T10S, R17E, S.L.B.&M.

COCHRANE RESOURCES, INC.

LOCATION LAYOUT FOR

FEDERAL #31-29

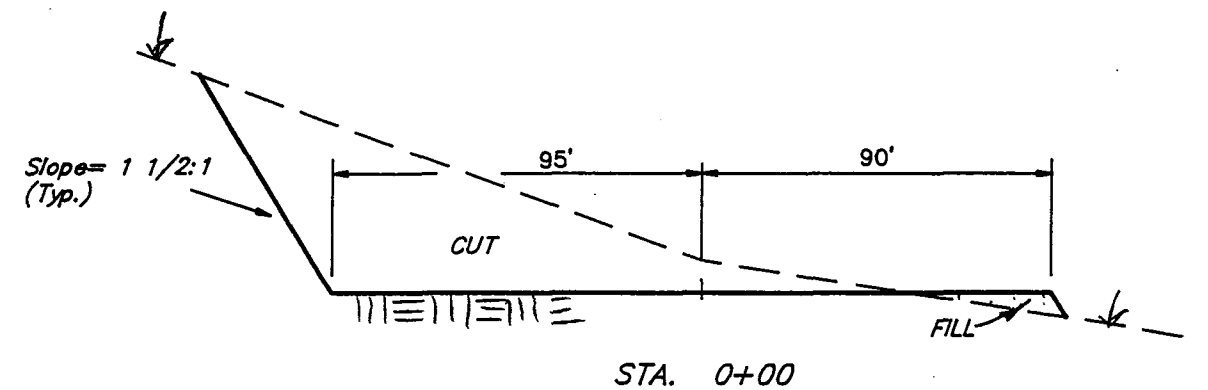
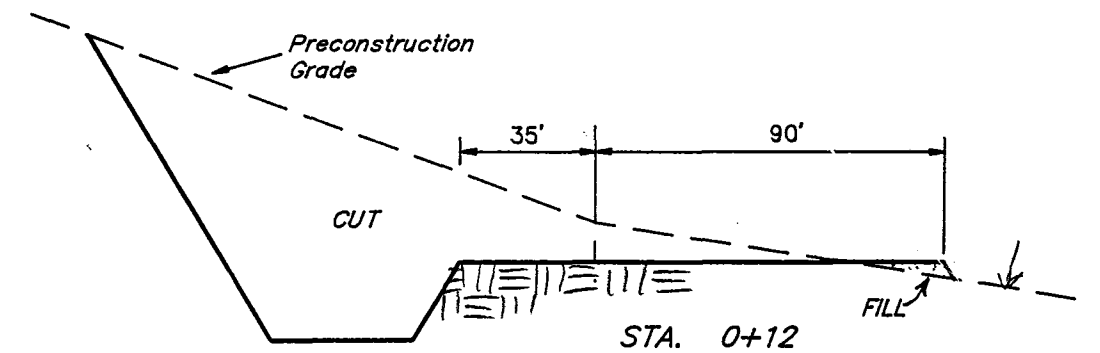
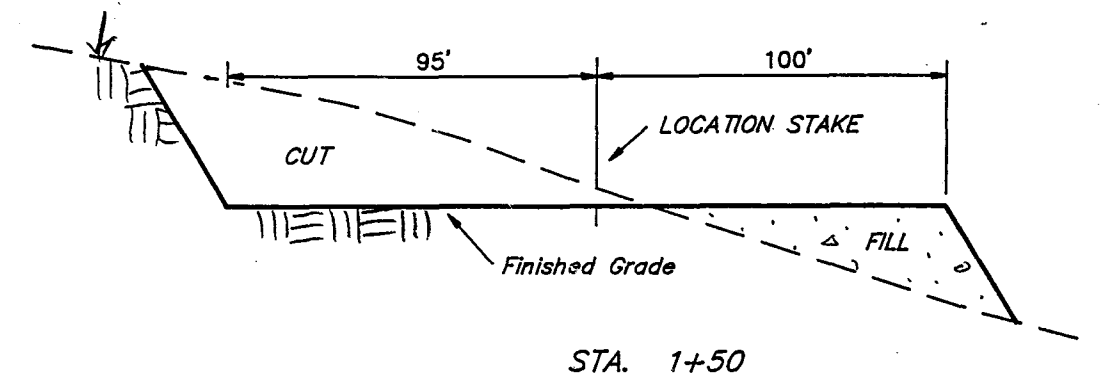
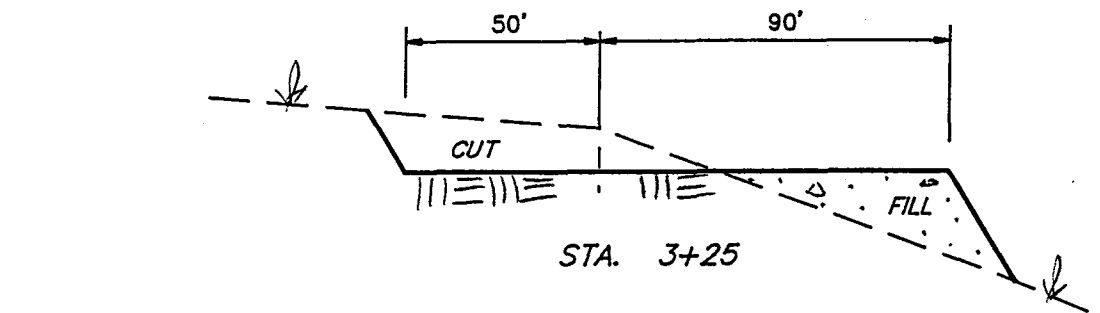
SECTION 29, T10S, R17E, S.L.B.&M.



SCALE: 1" = 50'
DATE: 3-18-91
Drawn By: J.R.S.

X-Section
Scale
1" = 50'

TYP. CROSS SECTIONS
TYP. LOCATION LAYOUT



APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,040 Cu. Yds.
Pit Volume (Below Grade) = 1,960 Cu. Yds.
Remaining Location = 7,030 Cu. Yds.

TOTAL CUT = 10,030 CU.YDS.
FILL = 5,220 CU.YDS.

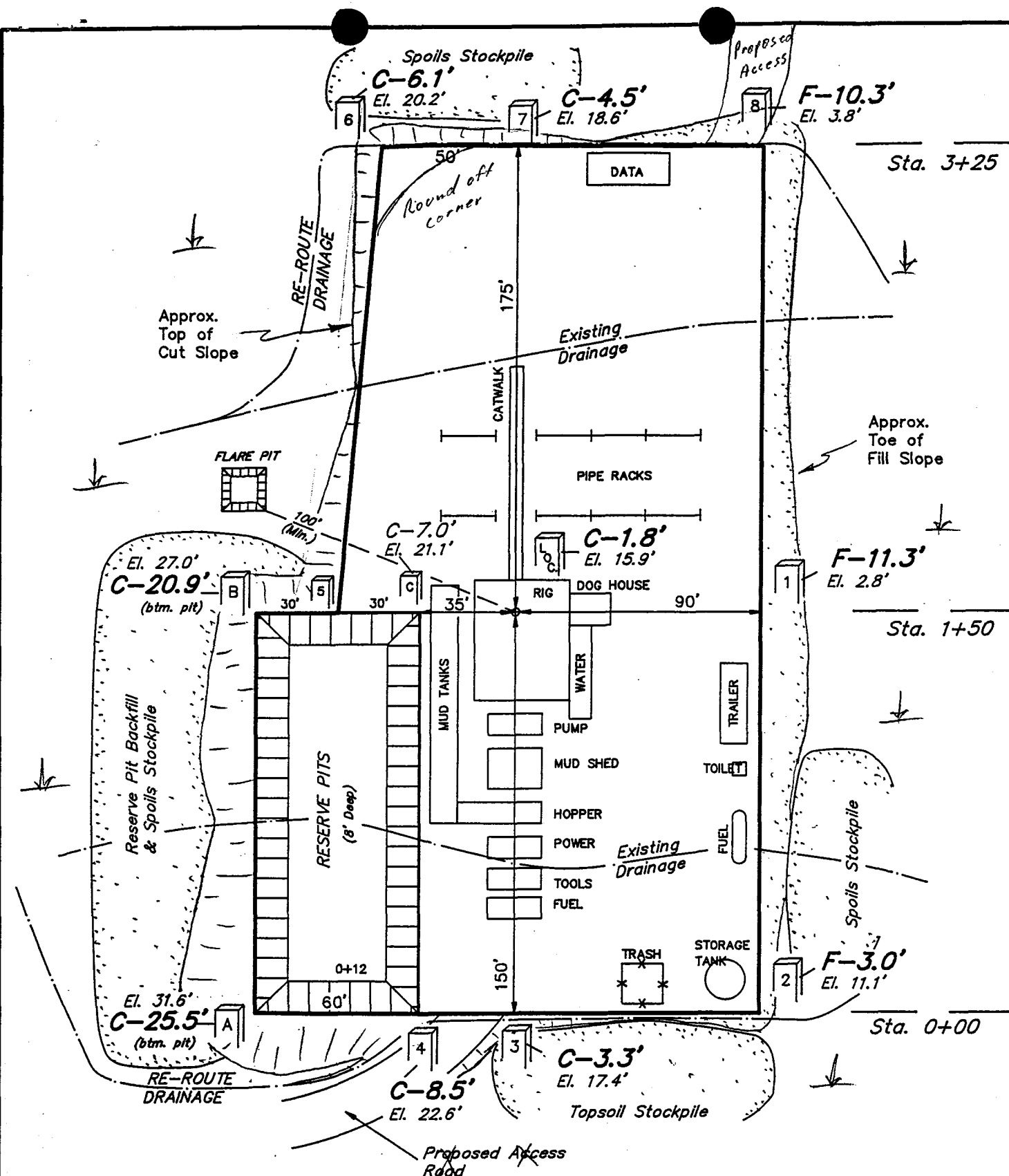
EXCESS MATERIAL AFTER
5% COMPACTION = 4,540 Cu. Yds.
Topsoil & Pit Backfill
(1/2 Pit Vol.) = 2,020 Cu. Yds.
EXCESS UNBALANCE
(After Rehabilitation) = 2,520 Cu. Yds.

Elev. Ungraded Ground at Location Stake = 6015.9'

Elev. Graded Ground at Location Stake = 6014.1'

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East Vernal, Utah



OPERATOR Cochrane Resources, Inc L-7015 DATE 4-16-91
WELL NAME Actual 31-09
SEC NWNE 04 T 10S R 17E COUNTY Duchess

13-013-31310
API NUMBER

Actual (1)
TYPE OF LEASE

CHECK OFF:

☒

PLAT.

☒

BOND

☒

NEAREST
WELL

☒

LEASE

☒

FIELD
SLBM

☒

POTASH OR
OIL SHALE

PROCESSING COMMENTS:

falls within state guidelines re plat for add'l wells
water permit

APPROVAL LETTER:

SPACING:

☐

R615-2-3

N/A
UNIT

☒

R615-3-2

☐

N/A
CAUSE NO. & DATE

☐

R615-3-3

STIPULATIONS:

1- Needs water permit



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

April 18, 1991

Cochrane Resources, Inc.
P. O. Box 1656
Roosevelt, Utah 84066

Gentlemen:

Re: Federal 31-29 Well, 757 feet from the North line, 2016 feet from the East line, NW NE, Section 29, Township 10 South, Range 17 East, Duchesne County, Utah

Approval to drill the referenced well is hereby granted in accordance with R615-3-2, Oil and Gas Conservation General Rules, subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. Section 73-3, Appropriation.

In addition, the following actions are necessary to fully comply with this approval:

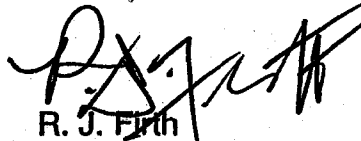
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification in the event it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or J. L. Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.

Page 2
Cochrane Resources, Inc.
Federal 31-29
April 18, 1991

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of Drinking Water/Sanitation, telephone (801) 538-6159.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31312.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
we14/1-12

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

United States
Div 06rM

Revised November 1990
Date NOS Received: March 8, 1991

RECEIVED

MAY 13 1991

DIVISION OF
OIL GAS & MINING

CONDITIONS OF APPROVAL
FOR APPLICATION FOR PERMIT TO DRILL

Company/Operator: Cochrane Resources, Inc.
Well Name & Number: Federal 31-29
Lease Number: U-65632
Location: NWNE, Section 29, T10S, R17E
Surface Ownership: Federal

NOTIFICATION REQUIREMENTS

- Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well
- Casing String and Cementing - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least twenty-four (24) hours prior to initiating pressure tests.
- First Production Notice - within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

The Vernal District Office shall be notified, at least twenty-four (24) hours prior to initiating pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the other resources shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the top of the Mahogany oil shale, identified at + 1770 feet.

The Vernal District Office shall be notified at least twenty-four (24) hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the Authorized Officer. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the Authorized Officer (AO).

A cement bond log (CBL) shall be utilized to determine the top of cement (TOC) for the production casing.

6. Notifications of Operations

The Vernal District Office shall be notified during regular work hours (7:45 a.m. - 4:30 p.m., Monday through Friday, except holidays), at least twenty-four (24) hours PRIOR to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be

generated or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells, as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of thirty (30) days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the AO. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to.

7. Other Information

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka
Petroleum Engineer

(801) 781-1190

Ed Forsman
Petroleum Engineer

(801) 789-7077

BLM FAX Machine

(801) 789-3634

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous:

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids.

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt wastes.

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation, and miscellaneous solids

B. THIRTEEN POINT SURFACE USE PROGRAM:

1. Planned Access Roads

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

2. Location of Existing and/or Proposed Facilities

If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change), BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental or other financial obligation as determined by the authorized officer.

3. Methods for Handling Waste Disposal

Burning will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

The reserve pit shall be lined.

A plastic nylon reinforced liner will be used. It will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

4. Well Site Layout

The flare pit will be on the south west near point 5, 125 feet from the well and 40 feet from the reserve pit fence. The reserve pit back fill will shield the reserve pit from the flare pit.

5. Additional Information

- a. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:
 - whether the materials appear eligible for the National Register of Historic Places;
 - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
 - a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.
- b. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- c. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities. (The BLM does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs.)

- d. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
- e. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-65632
2. NAME OF OPERATOR Cochrane Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Federal
3. ADDRESS OF OPERATOR P.O. Box 1656 Roosevelt, Utah 84066		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2016' FEL, 757' FNL, NW NE		8. FARM OR LEASE NAME Wilkins Ridge
14. PERMIT NO. 43-013-31212		9. WELL NO. 31-29
15. ELEVATIONS (Show whether OF, AT, OR, etc.) 6021' G.R.		10. FIELD AND POOL, OR WILDCAT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 29, T10S, R17E, S
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The 31-29 well was spudded on June 1, 1991 at 9:00AM. A 12 1/4" hole was drilled to 215'. 208' of 8 5/8" csg was run and cemented to surface with Class G Cement.

RECEIVED

JUN 04 1991

DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE President DATE June 3, 1991

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING INSPECTION FORM

COMPANY: COCHRANE RESOURCES INC. COMPANY REP: RENEE TYLER

WELL NAME: FEDERAL 31-29 API NO: 43-013-31312

QTR/QTR: _____ SECTION: 29 TWP: 10 S RANGE: 17 E

CONTRACTOR: EXETER DRILLING RIG NUMBER: 7

INSPECTOR: BERRIER TIME: 6:10 PM DATE: 6/11/91

OPERATIONS: DRILLING AHEAD DEPTH: 4,913

SPUD DATE: DRY: _____ ROTARY: 6/1/91 T.D.: _____ DEPTH: _____

=====

WELL SIGN: N SANITATION: Y BOPE: Y BLOOIE LINE: Y

H2S POTENTIAL: NA ENVIRONMENTAL: Y FLARE PIT: Y

RESERVE PIT: Y FENCED: NA LINED: NA PLASTIC: NA

RUBBER: _____ BENTONITE: _____ OTHER: _____

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: _____

BOPE TRAINING RECORDED IN THE RIG DAILY TOUR BOOK: _____

=====

LEGEND: (Y)=YES (U)=UNKNOWN (NA)=NOT APPLICABLE

=====

REMARKS:

LOOKING FOR DRILLING BREAK AT ABOUT 4,920' THIS WELL WILL T.D. 6/12/91.

WILL DRILL NEXT WELL NORTH OF THIS LOCATION IN SEPTEMBER.

OPERATOR Cochrane Resources Inc.OPERATOR ACCT. NO. N 7015ADDRESS P.O. Box 1656Roosevelt Utah 84066

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11237	43-013-31312	Cochrane Fed 31-29	NW NE	29	105	17 E	Duchesne	6-1-91	

WELL 1 COMMENTS:

(Entity added 6-21-91) *ja*

WELL 2 COMMENTS:

WELL 3 COMMENTS:

WELL 4 COMMENTS:

WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

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JUN 18 1991

DIVISION OF
OIL GAS & MININGSignature *W. Maffei*Title President.Date 6-17-91Phone No. (801) 722-5081

Cochrane Resources Inc.
Fed 31-29 43-013-31312
Exeter #7
Section 29
Township 10S
Range 17E
County-Duchesne, Utah
Operator-Cochrane Resources Inc.
Contractor- Exeter #7
6-7-91
Tested by Steven King

RECEIVED

JUN 20 1991

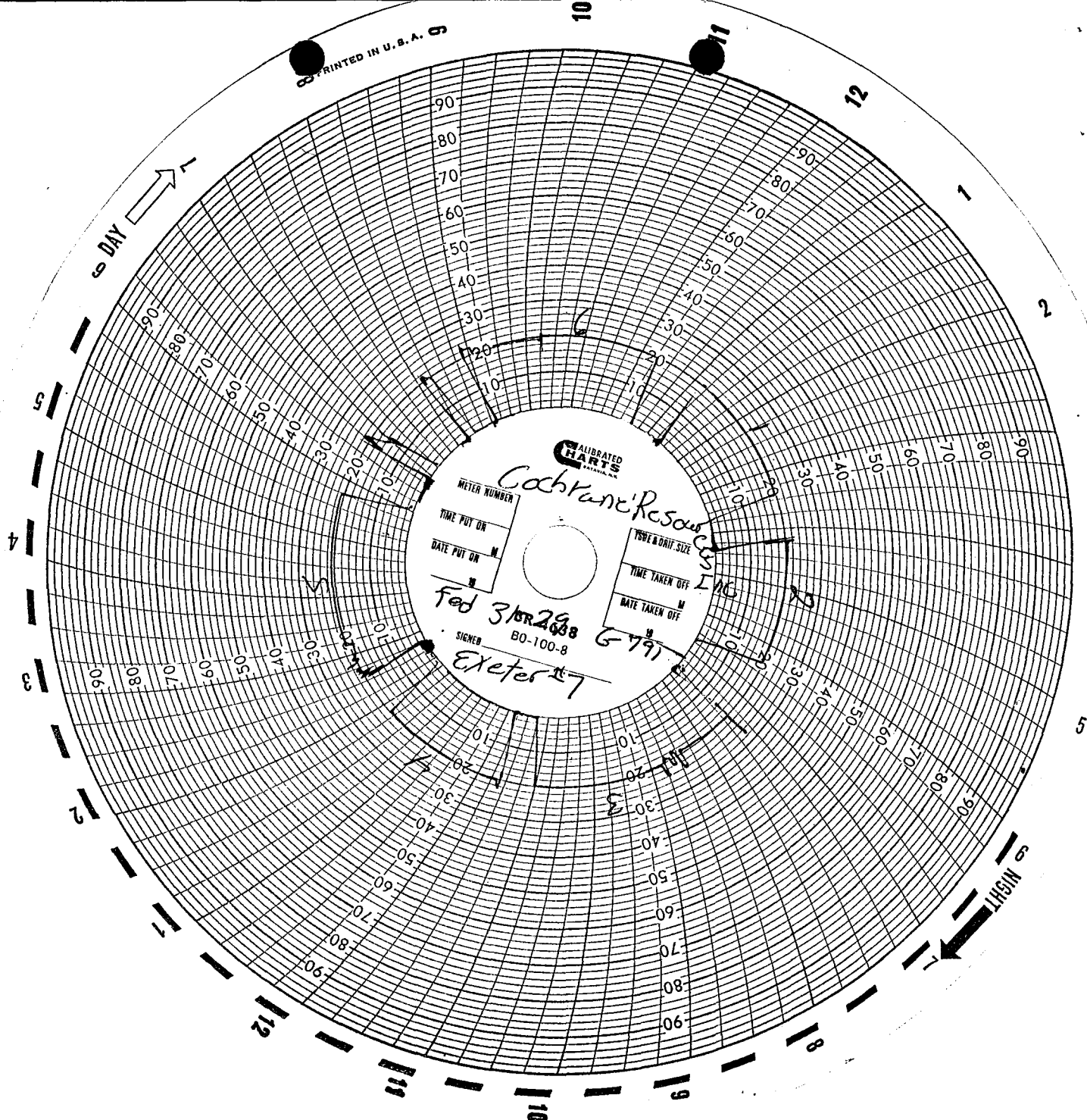
DIVISION OF
OIL GAS & MINING

QUICK TEST INC.
OFFICE (801) 789-8159

Cochrane Resources Inc.
Fed 31-29
6-7-91

TEST #	ITEM TESTED	PRESSURE	MIN. HELD	RESULTS
1	2nd choke, 1st set manifold	2000	10	No visible leaks
2	2nd choke, 2nd set manifold	2000	10	No visible leaks
3	2nd choke, 3rd set manifold	2000	10	No visible leaks
4	Inside BOP	2000	10	No visible leaks
5	Lower kelly	2000	10	No visible leaks
6	Upper kelly	2000	10	No visible leaks
7	Pipe rams,	2000	10	No visible leaks
8	Hydril, 1st kill, 1st choke	2000	10	No visible leaks
9	Blinds, 2nd kill, 1st choke csg	2000	10	No visible leaks
10	Blinds Ram, csg, 2nd choke, 2nd kill	2000	10	No visible leaks
11	Blind Rams, csg, 2nd choke, 2nd kill	1500	30	No visible leaks

PRINTED IN U.S.A.



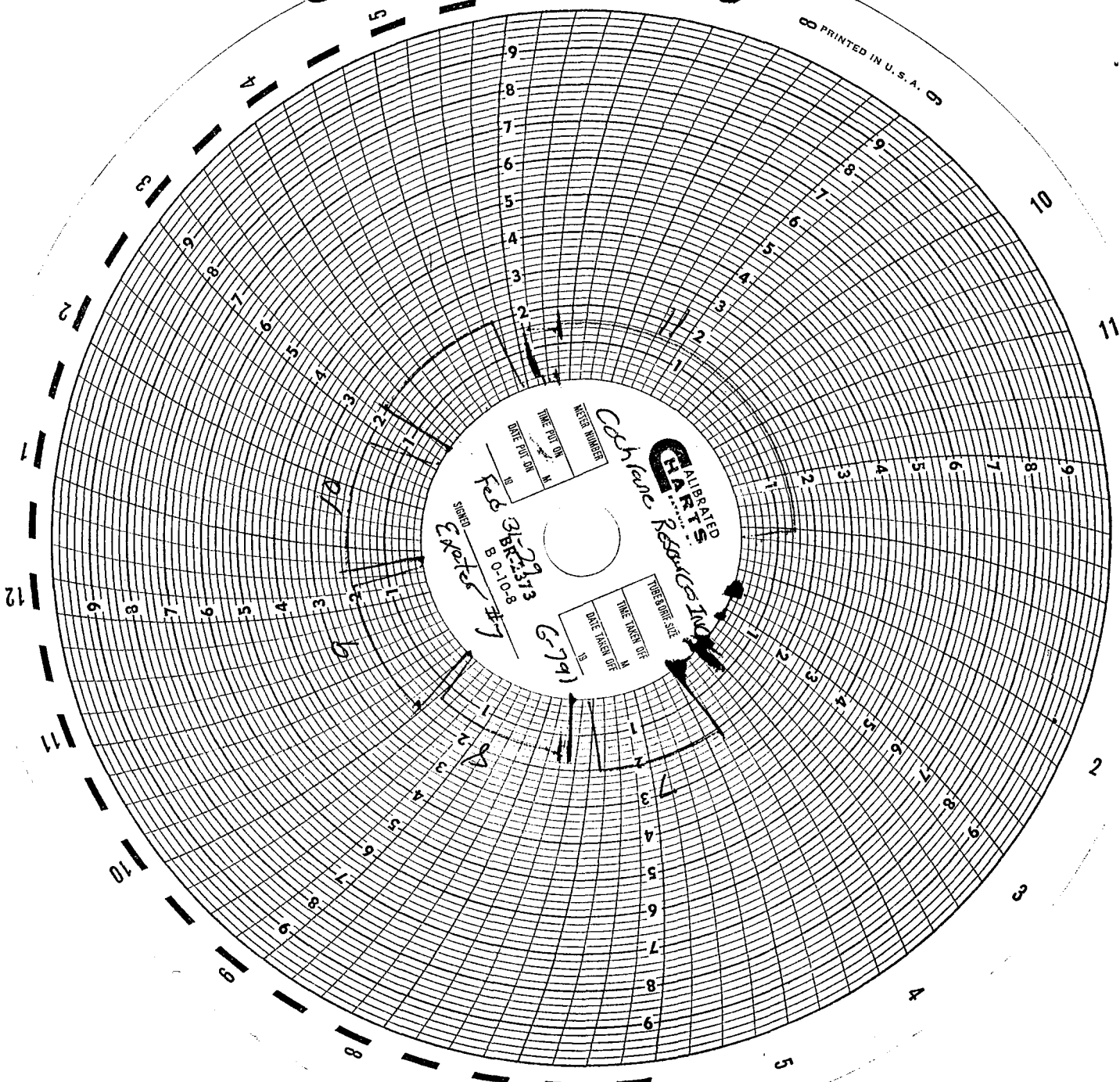
DAY

NIGHT

PRINTED IN U. S. A. ©

6 DAY →

← 6 NIGHT



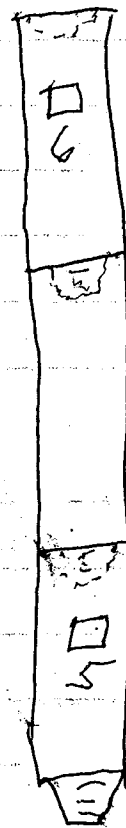
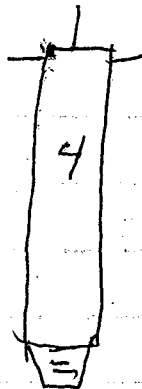
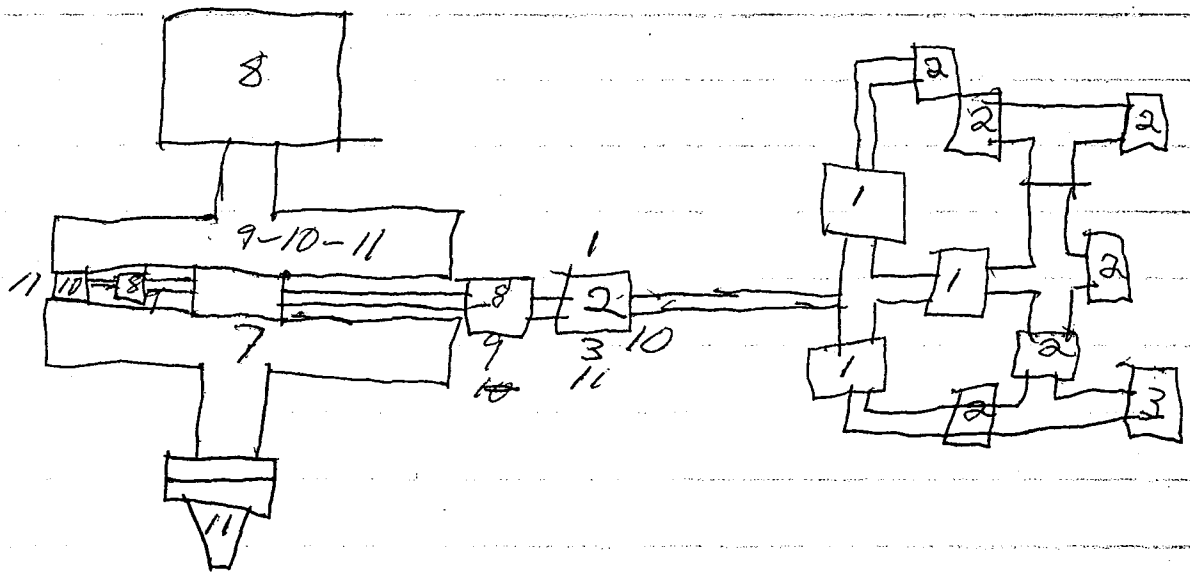
Calibrated
HEART
RECORDING

DATE TAKEN OFF **TIME TAKEN OFF**
Feb 23 1963 6:41

DATE PUT ON **TIME PUT ON**
Feb 23 1963 6:41

TEST NUMBER **TESTER'S NAME**
6791

SIGNED **CHARTS**
C. J. ...



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

(See other In-
structions on
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR
Cochrane Resources, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 1656 Roosevelt, Utah 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 757' FNL, 2016' FEL, NW NE

At top prod. interval reported below

At total depth

14. PERMIT NO. 43-013-31312 | DATE ISSUED 5/9/91

DIVISION OF
OIL GAS & MINING

OCT 04 1991

5. LEASE DESIGNATION AND SERIAL NO.

U-65632

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Federal

8. FARM OR LEASE NAME

9. WELL NO.

31-29

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 29, T10S, R17E

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

15. DATE SPUDDED 6/1/91 | 16. DATE T.D. REACHED 6/11/91 | 17. DATE COMPL. (Ready to prod.) 9/18/91 | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6021' G.R. | 19. ELEV. CASINGHEAD 6021' G.R.

20. TOTAL DEPTH, MD & TVD 5020' | 21. PLUG BACK T.D., MD & TVD 4961' | 22. IF MULTIPLE COMPL., HOW MANY* | 23. INTERVALS DRILLED BY | ROTARY TOOLS 0 - T.D. | CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

4839' - 4843' GRLVL

25. WAS DIRECTIONAL SURVEY MADE
yes

26. TYPE ELECTRIC AND OTHER LOGS RUN 6-17-91
FDC - DNL - DLL - Gamma Ray - Bond Log

27. WAS WELL CORED
no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	208'	12 1/4"	Cemented to surface	none
5 1/2"	17#	4970'	7 7/8"	90 sks class G	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	4907	

31. PERFORATION RECORD (Interval, size and number)

4839' - 4843'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4839' - 4843'	Fraced with 57,000#
	16-30 frac sand in
	gelled KCL water.

33.* PRODUCTION

DATE FIRST PRODUCTION 9/19/91		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 9/30/91	HOURS TESTED 24	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL. 14	GAS—MCF. 8	WATER—BBL. 0	GAS-OIL RATIO 571
FLOW, TUBING PRESS.		CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL. 14	GAS—MCF. 8	WATER—BBL. 0	OIL GRAVITY-API (CORR.) 36.5

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Used for fuel

TEST WITNESSED BY

Ken Allen

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

W. Allen

TITLE

President

DATE

10-2-91

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River	1696'			Douglas Creek	2234'	
				Green Shale Facies	3978'	
				Black Shale Facies	4309'	
				Wasatch Tongue	4466'	
				Basal Limestone	4790'	

38.

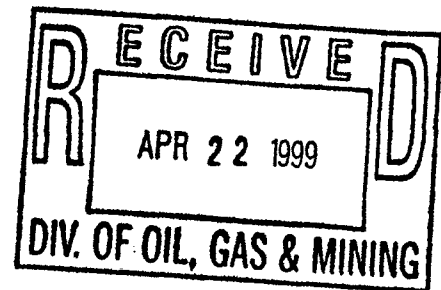
Engineering
Wellsite Supervision
Lease Operating

SUCHRANE RESOURCES, INC.

P.O. Box 1656
Roosevelt, Utah 84066
Phone (801) 722-5081

April 21, 1999

State of Utah
Division of Oil, Gas, & Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801



Re: Well 43-047-31026
43-013-31312

Dear Sir:

Enclosed are Sundry Notices for the subject wells requesting an extension of the current well status.


The Hill Creek Federal 1-10 (43-047-31026) has a status of T.A. The well was shut in due to low gas volumes. The well was producing into a flowline with 400 psi pressure on it which hurt the production. One well alone cannot afford compression on its own, but I feel that sometime compression will be installed down the line which would make this economical.

A packer is set on the end of the tubing, and so for we have not had any pressure on the csg. For this reason we feel the mechanical integrity of the well is good and does not pose a threat to public health, safety, or the environment.

The Fed 31-29 (43-013-31312) has a shut in status. The well was shut in due to marginal production not being economical. The 31-29 is completed in the same sand (only less) as the 21-29 and the 22-29. It has not been plugged because if a waterflood is done in this area the well could be used as an injector or recompleted as a water source well. It will take a better oil price and additional drilling to define the extent of this sand before a waterflood is considered again.

We feel the mechanical integrity of the well is good because there is no pressure on the surface csg and historically there have been no corrosion problems on wells in this area.

Thank you for your consideration.


Ken Allen

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER <input type="checkbox"/>	5. Lease Designation and Serial Number: U-65632
2. Name of Operator: Cochrane Resources, Inc.	6. If Indian, Allocated or Tribe Name:
3. Address and Telephone Number: PO Box 1656 Roosevelt, Utah 84066 (435)722-5081	7. Unit Agreement Name:
4. Location of Well Footage: Sec 29, T10S, R17E NW NE 2016 FEL, 757 FNL OO, Sec., T., R., M.:	8. Well Name and Number: Fed 31-29
	9. API Well Number: 43-013-31312
	10. Field and Pool, or Wildcat:
	County: Duchesne State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other | |

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other | Extension of Current Status |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

For the reasons outlined in the attached letter I would like to request an extension of the current S.I. well status.

13.

Name & Signature: [Signature] Title: President Date: 4/21/99

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 4-28-99

By: [Signature]

COPY SENT TO OPERATOR
Date: 5-6-99
Officer: [Signature]

(See Instructions on Reverse Side)

